

LITHIUM BATTERIES

SAFE STORAGE AND CHARGING



- » **7 models in 4 sizes:** Solutions for every application
- » **All-round protection:** ION-LINE safety storage cabinets for your safety

Lithium-ion batteries

LITHIUM-ION BATTERIES – HOW PROFESSIONALS AND INSURERS RECOMMEND HANDLING BATTERIES

Ever more frequently, private individuals, tradespeople, and companies are using lithium-ion batteries classified as being in the moderate performance class according to VdS 3103. It is important to keep safety in mind when doing so. If you do not store and/or charge these batteries properly, they can pose hazards and safety risks.

Insurers, associations, and professionals have drawn attention to this issue.

Property insurers recommend using available protective equipment (such as type 90 safety storage cabinets) to minimise risks and avoid damage.

Property insurers recommend the use of safety storage cabinets for the following reasons:

"If lithium ion batteries are required at production facilities, then measures and safety precautions such as (...) storing them in fire-resistant cabinets should be considered".

IMK Ber. No. 192
Dipl.-Ing. Jürgen Kunkelmann
Section 2.2, last updated 10/2017

"Lithium batteries should generally be treated as a hazardous material."

Publication VdS 3103 : 2019-06 (03)
General Association of the German Insurance Industry
published by VdS Schadenverhütung GmbH

"Areas with medium power batteries should be spatially (at least 5 m) or structurally separated from other areas with fire-resistant structures."

Publication VdS 3103 : 2019-06 (03)
General Association of the German Insurance Industry
published by VdS Schadenverhütung GmbH

"Fire-resistant safety storage cabinets (type 90) with smoke detector monitoring offer particular protection, as batteries can be both stored and charged there in a protected manner. "

Provinzial Flyer – E-Bikes handling lithium safely, last updated 06/2020

"Past damage we have seen has shown that damaged or defective batteries, in particular, can cause a fire. We have also seen fires caused by lithium-ion batteries in bicycle stores".

Provinzial - Handling lithium-ion batteries safely in bicycle sales,
www.provinzial.de last updated May 2020

"Larger quantities, or more powerful LIB must be stored at a safe distance from flammable materials. If they are stored inside buildings, then a clearance of 2.5m from other goods must be maintained, or the LIB must be stored in a separate area secured by fire protection technology (like a safety storage cabinet or container)!"

LIB= Lithium-ion batteries
DGUV Information 205-041
Fire protection when handling lithium-ion batteries
Last updated 02/2024

"Use of a charging cabinet or a separate room with fire protection, if more than 5 batteries are present."

GDV - Brief information on loss prevention Status 09/2024



ION-
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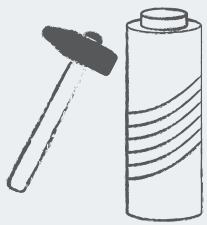

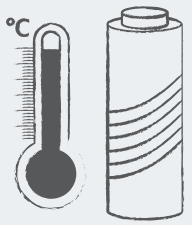
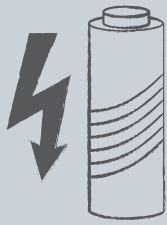
Lithium-ion batteries

IMPROVED SAFETY THROUGH FIRE

PROTECTION – CHARGING AND STORING

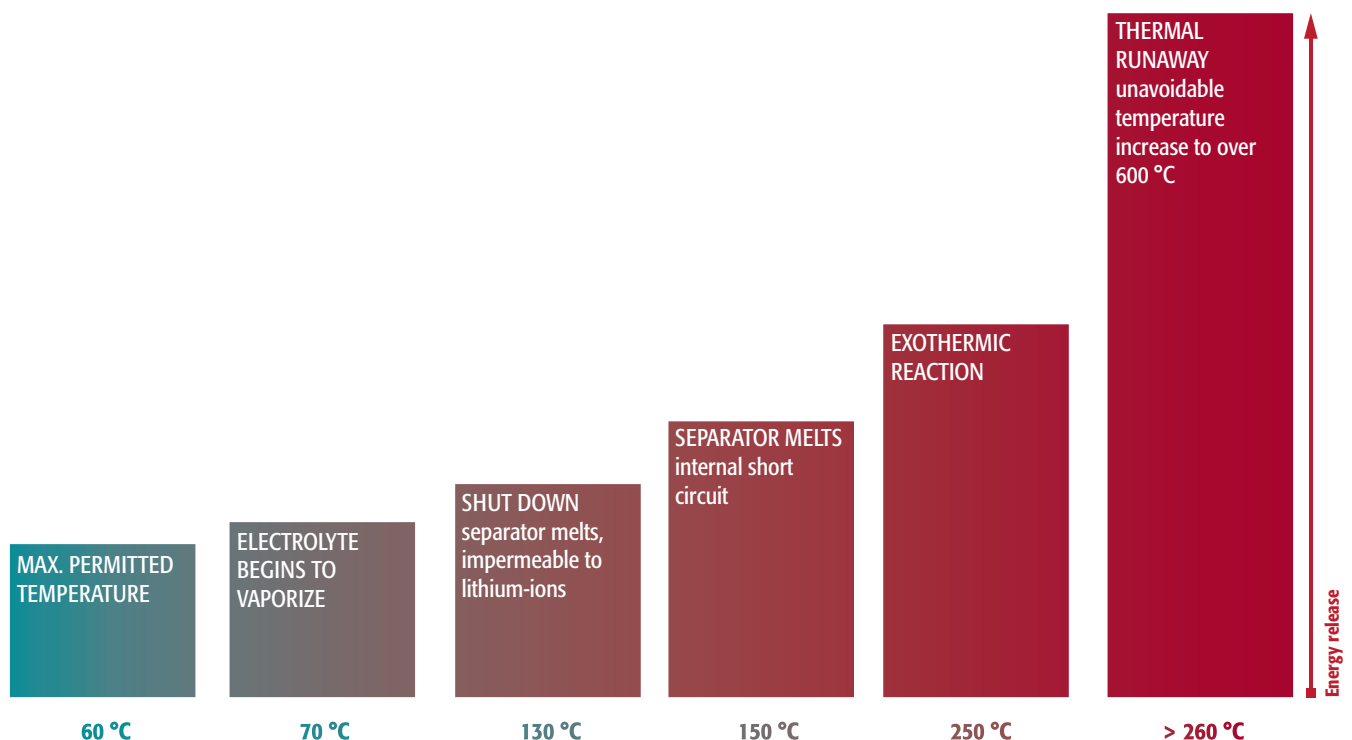
BATTERIES CORRECTLY

Lithium-ion batteries can cause a fire. Causes include:

Mechanical damage	Deep discharge	Thermal overload	Electrical overload
In combination with the high energy density of the battery	Unstable cell	Caused by external heat or energy sources	During charging and discharging
			

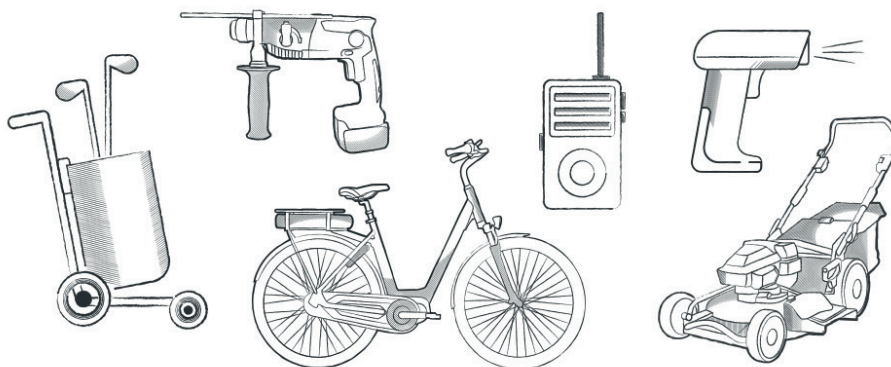
Always store and charge lithium-ion batteries in a safety storage cabinet. Handle batteries properly and appropriately to reduce hazards such as the risk of fire. Lithium-ion batteries offer many advantages. They are long-lasting, offer high energy density, have a low level of self-discharge, and can be used in a wide range of different applications. Using lithium-ion batteries is safe. However, according to the VDE they are safe only when handled properly. Technical defects or improper handling can cause a fire. If a lithium-ion battery

discharges its energy in an uncontrolled manner, the heat released may exceed the melting point of the lithium. This will result in a chain reaction. Professionals call this “thermal runaway”. The battery can explode as it burns. Because of this, it is important to understand and comply with the safety regulations for moderate performance batteries. It is best to store and charge lithium-ion batteries in an ascos safety storage cabinet.



SAFETY REGULATIONS FOR MEDIUM POWER CLASS BATTERIES

(Based on VdS 3103, Provincial flyer 06/2020,
GDV – Brief information on loss prevention Status 09/2024)



SAFETY REGULATIONS

- ▶ Comply with the manufacturer's specifications, and follow the information provided on technical product sheets.
- ▶ Protect the poles of the batteries from short circuiting.
- ▶ Protect the batteries from mechanical damage.
- ▶ Do not expose the batteries directly or continuously to high temperatures or heat sources, such as direct sunlight
- ▶ Store the batteries in a location structurally or spatially separate from other flammable materials if there is no automatic extinguishing system available: minimum distance 2.5 m
- ▶ **Use a charging cabinet or a room separated using fire safety technology if there are more than 5 batteries present.**
- ▶ Remove damaged or defective batteries from your warehouse and production areas immediately; store them temporarily until their disposal at a safe distance away, or in an area separated using fire protection technology.
- ▶ Only store batteries that have a testing certificate in accordance with UN 38.3; store prototypes only in exceptional cases and with a risk assessment.
- ▶ Only store batteries in separate, fire-resistant areas or at a safe distance of 5 m
- ▶ Do not store batteries with other products that can act as accelerants to a fire
- ▶ **Monitor the storage areas where your batteries are located using suitable sensors with connection to a permanently staffed alarm receiving office**
- ▶ With fire extinguishing systems, observe the information in the product data sheets for the batteries on suitable extinguishing agents.

Conclusion

**Store and charge lithium-ion batteries
in a safety storage cabinet!**



ION-LINE

CORE, PRO AND ULTRA – CUSTOMISED AND SAFE

The asecos ION-LINE offers three different safety levels for secure active and passive storage of lithium ion batteries.

CORE: Comprehensive fire protection with the proven asecos evacuation and alarm forwarding concept.

PRO: Expanded protection when handling lithium-ion batteries with improved monitoring.

ULTRA: Improved fire protection, active smoke gas management, and expanded monitoring are useful even in sensitive areas with the highest safety requirements.



TESTS AND CERTIFICATIONS	FEATURES\PRODUCT	ULTRA
	<i>Fire resistance from the outside</i>	✓
	<i>Fire resistance from the inside</i>	✓
	<i>Certified real fire test</i>	✓
	<i>GS certified</i>	✓
DETECTION AND ALARMING	<i>Fire detection and alarm forwarding</i>	✓
	<i>3-stage monitoring system with smoke detector and temperature sensor</i>	✓
	<i>Fire suppression</i>	✓*
	<i>Alarm differentiation</i>	✓
FEATURES AND SPECIALITIES	<i>Evacuatable from site</i>	✓
	<i>Thermally separated storage levels</i>	✓
	<i>Pressure relief opening in the head section</i>	✓
	<i>Smoke-tight</i>	✓

*optional

from page 12

No matter what safety level you choose, all cabinets offer these key safety features:

- Fire protection from the inside-out and from the outside-in for 90 minutes
- Smoke detection
- Alarm forwarding

In addition, for the CORE and PRO models, you have these options:

If you only want to **store** batteries in the cabinet, choose the **STORE version**. If you intend to **charge (active storage)** batteries directly in the cabinet, then choose the **CHARGE version**.



PRO	CORE	CHARGE UB
✓	✓	✓
✓	✓	✓
✓		
✓	✓	✓
✓		
✓*		
✓*		
✓	✓	✓
✓	✓	
✓	✓	

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WHEN EVERY SECOND COUNTS: ALARM FORWARDING SAVES LIVES

Alarm signals are loud and piercing – they ensure people are immediately aware of dangerous situations so they can act accordingly. But what happens if no one is there to hear them?

To ensure a quick and targeted reaction in such cases, all asecos products are equipped with a potential-free switching contact as a standard. This can be connected to a control centre, so action can be taken immediately.

We also offer a wide range of options for alarm forwarding, for many different requirements and applications. The following table provides an overview of the available solutions – tailored to your individual needs.

	Product group	CORE	PRO	ULTRA
Standard equipment	Detection	Smoke detection 1 Alarm status	Detection of smoke, heat, and interruption to the power supply 4 Alarm statuses	Detection of smoke, heat on multiple levels, and interruption to the power supply 4 Alarm statuses
	Alarm forwarding	Potential-free alarm contact 1 Signal	Forwarding of the collective alarm via a potential-free alarm contact 1 Signal	Forwarding of 4 differentiated alarms via separate potential-free switching relays 4 Signals
1 Alarm	Remote alarm module 1.0 Available ex works and for retrofitting	Installing the remote alarm module ensures signals are forwarded as a standard over a 2G or 4G network. Item no. 39221		Not compatible
	These additional forwarding options are available to you:			
Multiple alarms	Relay module 4.0 Available ex works and for retrofitting by asecos Service	Not compatible	Select the relay module in order to differentiate the collective alarm into 4 alarm statuses. Item no. 41405	The function is included as a standard feature
	Remote alarm module 4.0 Available ex works and for independent retrofitting for the ION-LINE-ULTRA Retrofitting by asecos Service available for the ION-LINE-PRO.	Not compatible	Only compatible in combination with relay module 4.0: Equip your ION-LINE PRO with both modules in order to forward all 4 alarm messages over the wireless network. Item no. 42485	Connected directly to the standard alarm contacts, the Remote alarm module 4.0 on the ION-LINE-ULTRA makes it possible to forward differentiated alarm messages as an SMS or voice call over a 2G or 4G network. Item no. 42485

YOUR SOLUTION IN JUST A FEW CLICKS



ION-
LINE

With the **3D-ION-LINE configurator**, you can design your own custom solution for safe battery storage – quickly, easily, and precisely.

The **guided configuration with targeted questions about your storage and usage conditions** ensures you find the safety storage cabinet that is most ideal for your requirements.

In addition, it offers **the option of adjusting the interior equipment as needed** – from shelves to specific equipment elements. **Real-time 3D illustrations** help you visualise your planning and get a clear impression of your configuration.

Planners and architects will also benefit from **2D and 3D files in multiple different formats**. These can be integrated seamlessly into existing planning processes, allowing the solution to be precisely visualised in a building or room.

ION-LINE ULTRA

Tests have already been successfully completed for the ION-LINE ULTRA, as part of the requested GS certification for safety storage cabinets for the active and passive storage of lithium-ion batteries.

The GS test principles serve to verify the special performance of products in the selected area of application by an external test centre.

If you have any questions, please get in touch with your contact person!



ION-LINE ULTRA: Tested in Germany – safe throughout Europe.



Trust in the GS mark.

Please review the tests and certificates yourself. To review our certificates, please see our document **“Seal of Conformity”** at www.asecos.com.



ION-LINE | ION-ULTRA-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Premium models for the highest safety requirements – how you can benefit from the advantages of the ION-ULTRA-90:*

1

The safest of all worlds - fire tests with origins in the storage of hazardous substances, component testing specifications, real fire tests and European requirements



2

The insulated shelf – tested propagation safety on every storage level. If a battery catches fire, it is prevented from spreading to other storage levels.



3

An LED indicator and visual/acoustic alarms quickly inform you of fires when they begin, without having to open the doors of the cabinet.



4

Optionally equipped with fire suppression system, which automatically triggers in the event of a fire.



5

With the optional occupancy sensor, doors remain open automatically as the sensor registers persons in the door-arc range. For maximum operating convenience when loading and unloading the cabinet.



6

The built-in, temperature-controlled ventilation system prevents heat build-up when charging the batteries.



7

Smoke detectors and temperature sensors detect incipient fires early, and forward alarms via standard potential-free switching contacts directly to a control centre – optionally available with remote alarm module.



8

The additional 3-point locking device combines convenient operation with the verifiable, tested safety of closed doors in case of a real fire.



9

Freedom in everyday life and emergencies – With the integrated transport base, the cabinet can be transported within the company or evacuated in the event of a fire.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance in the event of a thermal runaway by means of a real fire test**, in accordance with VDMA 24994



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **GS-tested** (document EK5/AK4 09-10, ProdSG)



- **CE compliant**



- **UKCA compliant**



- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



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Model IO90.195.120.065.WDEL
Order No. 40559-053-41105

Image shows optional accessories



Model IO90.195.120.065.WDEL
Order No. 40559-053-41112

Image shows optional accessories

ARE YOU LOOKING FOR AN APPROPRIATE STORAGE SOLUTION FOR HAZARDOUS MATERIALS?

Our optimised online product configurator helps you, step by step, to find the suitable safety storage cabinet.

Take the test:
www.asecos-configurator.com



Technical data

		EU version	UK version
External dimensions W x D x H	mm	1193 x 650 x 1953	1193 x 650 x 1953
Internal dimensions W x D x H	mm	1050 x 565 x 1643	1050 x 565 x 1643
Weight without interior equipment	kg	585	585
Maximum load	kg	600	600
Entry width transport base	mm	1120	1120
Entry height transport base	mm	90	90
Extraction air	DN	160	160

Total power rating of the power socket strips

Fuse (1-phase)	A	16	13
Power max. (1-phase)	kW	3,68	2,99
Fuse (3-phase)	A	3 x 16	3 x 13
Power max. (3-phase)	kW	11,04	8,97
Number of socket outlets per strip	piece	8	8

Main features



Safe storage and charging of batteries



Integrated warning system incl. LED display

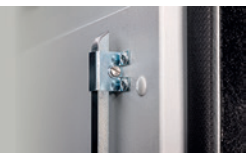


3-point locking



Insulated shelves

The additional 3-point locking device combines convenient operation with the verifiable, tested safety of closed doors in case of a real fire.



Model	Body colour	Door colour	Order No.
IO90.195.120.065.WDEL	anthracite grey RAL 7016	gentian blue RAL 5010	40559-047
	anthracite grey RAL 7016	anthracite grey RAL 7016	40559-053

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
		EU version UK version
3x Insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.85L)	powder-coated sheet steel	40878 40888
4x Insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.85L)	powder-coated sheet steel	41102 41105
5x Insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.85L)	powder-coated sheet steel	41106 41109
6x Insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.85L)	powder-coated sheet steel	40921 41112

Accessories	Order No.
	EU version UK version
Power supply cable 400 V (can only be ordered in combination with the cabinet)	38038 38038
Fire suppression unit with hoop guard	40941 40941
Occupancy sensor	Doors are held open automatically when loading and unloading the cabinet 42169 42169
Module for remote signalling 4.0	forwards all four alarm statuses to the mobile network* 42483 42485

Service	Order No.
Service (UK only)	IONSERVE



ION-
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ION-LINE | ION-PRO-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for expanded safety requirements – how you benefit from the advantages of the ION-LINE PRO:*

1

Safe hazard detection – the integrated alarm function immediately and reliably emits a warning if a fire develops, greatly improving safety for personnel and property.



2

The insulated shelf – tested propagation safety on every storage level. If a battery catches fire, it is prevented from spreading to other storage levels.



3

Smoke detectors and a temperature sensor detect even incipient fires and can transmit alarms to the building control system quickly.



4

Optionally equipped with fire suppression system, which automatically triggers in the event of a fire.



5

The ventilation attachment prevents heat build-up when charging the batteries.



6

Convenient cabinet entry – open both doors at the same time with just one hand.



7

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



8

The additional 3-point locking device combines convenient operation with the verifiable, tested safety of closed doors in case of a real fire.



9

Freedom in everyday life and emergencies – With the integrated transport base, the cabinet can be transported within the company or evacuated in the event of a fire.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance in the event of a thermal runaway by means of a real fire test**, in accordance with VDMA 24994



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- **UKCA compliant**



- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-
LINE



Model IO90.195.120.PC.WDC
Order No. 41269-047-41401

Image shows optional accessories



Model IO90.195.120.PC.WDC
Order No. 41269-047-41400

Image shows optional accessories

ARE YOU LOOKING FOR AN APPROPRIATE STORAGE SOLUTION FOR HAZARDOUS MATERIALS?

Our optimised online product configurator helps you, step by step, to find the suitable safety storage cabinet.

Take the test:
www.asecos-configurator.com



Technical data

		EU version	UK version
External dimensions W x D x H	mm	1193 x 615 x 2224	1193 x 615 x 2224
Internal dimensions W x D x H	mm	1050 x 522 x 1647	1050 x 522 x 1647
Weight without interior equipment	kg	490	490
Maximum load	kg	600	600
Entry width transport base	mm	1120	1120
Entry height transport base	mm	90	90
Extraction air	DN	100	100

Total power rating of the power socket strips

Fuse (1-phase)	A	16	13
Power max. (1-phase)	kW	3,68	2,99
Fuse (3-phase)	A	3 x 16	3 x 13
Power max. (3-phase)	kW	11,04	8,97
Number of socket outlets per strip	piece	8	8

Main features

- Safe storage and charging of batteries
- Extraction unit and LED display included
- 3-point locking
- Insulated shelves

PRO model – equipped with **LED function display** for visual detection of emergencies, and optional **fire suppression system**.



Model	Body colour	Door colour	Order No.
IO90.195.120.PC.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41269-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
		EU version UK version
3x insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41391 41399
4x insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41392 41400
5x insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41393 41401
6x insulated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41394 41402

Accessories	Order No.
	EU version UK version
Module for remote signalling 1.0	alarm transmission to a mobile of your choice
Power supply cable 400 V (can only be ordered in combination with the cabinet)	38765 39221
Relay module 4.0	38038 38038
Fire suppression unit with hoop guard	potential-free forwarding of 4 different alarm states
	41405 41405
Module for remote signalling 4.0	42212 42212
	forwards all four alarm statuses to the mobile network*
	42483 42485

*Compatible only when equipped with Relay module 4.0

Service	Order No.
Service (UK only)	IONSERVE



Model IO90.195.120.PS.WDC

Order No. 41429-047-41389

Image shows optional accessories



Model IO90.195.120.PS.WDC

Order No. 41429-047-41388

Image shows optional accessories

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Technical data

External dimensions W x D x H	mm	1193 x 615 x 1953
Internal dimensions W x D x H	mm	1050 x 522 x 1647
Weight without interior equipment	kg	485
Maximum load	kg	600
Entry width transport base	mm	1120
Entry height transport base	mm	90
Extraction air	DN	100

IO90.195.120.PS.WDC

Main features

- Store batteries safely
- LED display included
- 3-point locking
- Insulated shelves

ION-LINE

Model	Body colour	Door colour	Order No.
IO90.195.120.PS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41429-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
3x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	EU version 41386 UK version 41386
4x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389

Accessories	Order No.
	EU version UK version
Module for remote signalling 1.0	alarm transmission to a mobile of your choice 38765 39221
Relay module 4.0	potential-free forwarding of 4 different alarm states 41405 41405
Fire suppression unit with hoop guard	42212 42212
Module for remote signalling 4.0	forwards all four alarm statuses to the mobile network* 42483 42485

*Compatible only when equipped with Relay module 4.0

Service	Order No.
Service (UK only)	IONSERVE

ION-LINE | ION-CORE-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for comprehensive safety requirements – how you can benefit from the advantages of the ION-CORE-90:*

1

Storing lithium-ion batteries safely in cabinets with 90 minutes fire resistance.



2

The insulated shelf – tested propagation safety on every storage level. If a battery catches fire, it is prevented from spreading to other storage levels.



3

Convenient cabinet entry – open both doors at the same time with just one hand.



4

Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



5

If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



6

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



7

The two-point locking system allows you to lock the cabinet doors automatically and securely.



8

Freedom in everyday life and emergencies – With the integrated transport base, the cabinet can be transported within the company or evacuated in the event of a fire.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- **UKCA compliant**



- **Extended manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-
LINE



Model IO90.195.060.CC.WDC
Order No. 41302-047-41370



Model IO90.195.060.CC.WDC
Order No. 41302-047-41375

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Take the test:
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Technical data

External dimensions W x D x H	mm	599 x 615 x 1953
Internal dimensions W x D x H	mm	450 x 522 x 1647
Weight without interior equipment	kg	305
Maximum load	kg	600
Entry width transport base	mm	526
Entry height transport base	mm	90

Total power rating of the power socket strips

Fuse (1-phase)	A	13
Power max. (1-phase)	kW	2,99
Fuse (2-phase)	A	2 x 13
Power max. (2-phase)	kW	5,98
Number of socket outlets per strip	piece	8 *

* A minimum of 3 power sockets available per shelf.
Each locker has access to a minimum of 1 power socket.

IO90.195.060.CC.WDC

Main features

- Safe storage and charging of batteries
- Integrated smoke detector for fire detection
- 2-point locking
- Insulated shelves

EXPERT TIP

Lithium-ion batteries with **obvious damage** should generally **not be stored inside buildings**.

Dispose of them **promptly in appropriatedisposal containers** suitable fortransportation, **outside of buildings**.



Model	Body colour	Door colour	Order No.
IO90.195.060.CC.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41302-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
7x metal locker with insulated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel	EU version 41373 UK version 41375
4x insulated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel	41366 41370

Accessories	Order No.
Power supply cable 400 V (can only be ordered in combination with the cabinet)	EU version 38038 UK version 38038
Module for remote signalling 1.0	alarm transmission to a mobile of your choice 38765 39221

Service	Order No.
Service (UK only)	IONSERVE



Model IO90.195.120.CS.WDC
Order No. 41426-047-41389



Model IO90.195.060.CS.WDC
Order No. 41419-047-41363

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Technical data

		IO90.195.120.CS.WDC	IO90.195.060.CS.WDC
External dimensions W x D x H	mm	1193 x 615 x 1953	599 x 615 x 1953
Internal dimensions W x D x H	mm	1050 x 522 x 1647	450 x 522 x 1647
Weight without interior equip.	kg	480	300
Maximum load	kg	600	600
Entry width transport base	mm	1120	526
Entry height transport base	mm	90	90

Main features

- Store batteries safely
- Integrated smoke detector for fire detection
- 2-point locking
- Insulated shelves

ION-LINE

Model	Body colour	Door colour	Order No.
IO90.195.120.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41426-047
IO90.195.060.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41419-047

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
IO90.195.120.CS.WDC		EU version UK version
3x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41386 41386
4x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x insulated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389

IO90.195.060.CS.WDC		EU version UK version
3x insulated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41362 41362
4x insulated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41363 41363
5x insulated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41364 41364
6x insulated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41365 41365

Accessories	For cabinet width	Order No.
		EU version UK version
Insulated shelf	1200	42201 42201
Insulated shelf	600	42202 42202
Module for remote signalling 1.0	alarm transmission to a mobile of your choice	38765 39221

Service	Order No.
Service (UK only)	IONSERVE

ION-LINE | ION-CHARGE-90

*Safe and approved passive and active storage of lithium-ion batteries in working areas
Cabinet models for customer-specific safety requirements – how you can benefit from the advantages of the ION-CHARGE-90:*

1

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



2

Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



3

If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



4

With a height of 78 cm, the under bench cabinet can be flexibly integrated under worktops.



5

Protect yourself from unauthorised access and theft with the lockable drawer.



6

The integrated transport base and optional castors allow for easy transport and immediate evacuation to a safe location outdoors in case of damage.





- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1



- **Fire resistance of 90 minutes from inside to outside** in accordance with EN 1363-1



- **CE compliant**



- **UKCA compliant**



- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-LINE | ION-CHARGE-90



Model IO90.078.059.057.U9.S
Order No. 39354-247-39489



Model IO90.078.059.057.U9.S
Order No. 39354-247-39489

Picture shows optionally available castors.

Technical data




		EU version	UK version
External dimensions W x D x H	mm	593 x 574 x 780	593 x 574 x 780
Internal dimensions W x D x H	mm	470 x 452 x 582	470 x 452 x 582
Weight without interior equip.	kg	130	130
Maximum load	kg	300	300
Entry width transport base	mm	526	526
Entry height transport base	mm	90	90

Total power rating of the power socket strips

Fuse (1-phase)	A	16	13
Power max. (1-phase)	kW	3,68	2,99
Number of socket outlets per strip	piece	4 *	4 *

* 4 power sockets available per drawer.

Main features

-  Safe storage and charging of batteries
-  Perfect for installation under work surfaces
-  Optionally available with castor set for the transport base



Mobile
Optionally available castors with integrated locking mechanism, easy moving of the cabinet

Model	Body colour	Door colour	Order No.
IO90.078.059.057.U9.S	anthracite grey RAL 7016	gentian blue RAL 5010	39354-247

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
1x drawer (load capacity = 50 kg) incl. socket strip, 1x second level drawer (load capacity = 25 kg) incl. socket strip	powder-coated sheet steel	EU version 39368 UK version 39489

Accessories	Order No.
Castor set for plinth	EU version 39374 UK version 39374
Module for remote signalling 1.0	can only be ordered in combination with cabinet 38765 alarm transmission to a mobile of your choice 39221

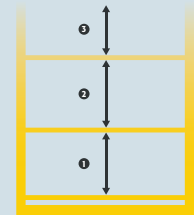
Service	Order No.
Service (UK only)	IONSERVE



Storage heights

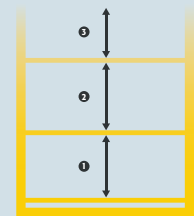
IO90.195.120.065.WDEL

Shelves/number		6	5	4	3
Distance	⑥ (mm)	250			
Distance	⑤ (mm)	245	300		
Distance	④ (mm)	245	295	380	
Distance	③ (mm)	245	295	375	515
Distance	② (mm)	245	295	375	510
Distance	① (mm)	245	295	375	510



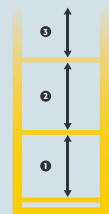
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Shelves/number		6	5	4	3
Distance	⑥ (mm)	240			
Distance	⑤ (mm)	235	305		
Distance	④ (mm)	235	300	435	
Distance	③ (mm)	235	300	360	500
Distance	② (mm)	235	300	360	520
Distance	① (mm)	235	300	360	520

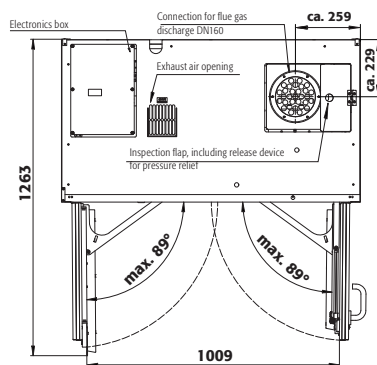


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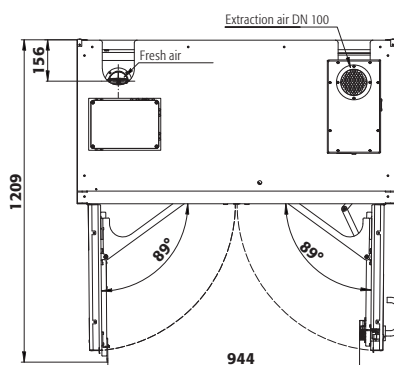
Shelves/number		6	5	4	3
Distance	⑥ (mm)	240			
Distance	⑤ (mm)	235	305		
Distance	④ (mm)	235	300	435	
Distance	③ (mm)	235	300	360	500
Distance	② (mm)	235	300	360	520
Distance	① (mm)	235	300	360	520



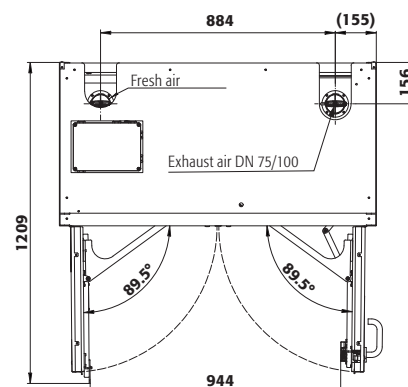
Please note: this information is approximate as it was not yet finalised at the time of printing. Please get in touch!



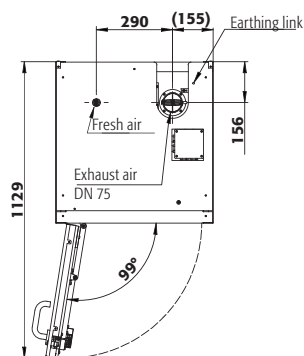
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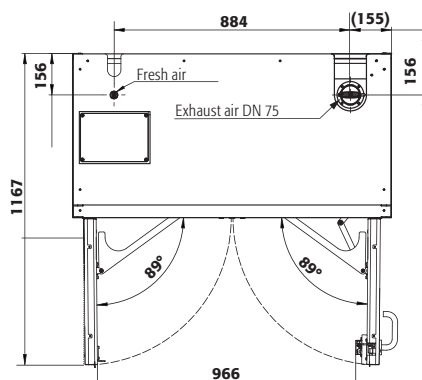
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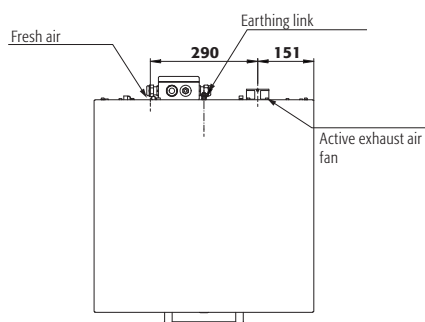
IO90.195.120.PS.WDC



IO90.195.060.CC.WDC
IO90.195.060.CS.WDC



IO90.195.120.CS.WDC



IO90.078.059.057.U9.S

Service and maintenance

DO NOT **COMPROMISE** WHEN IT COMES TO **SAFETY**

Make yourself secure - safety for employees, work equipment and buildings

Have your safety systems, such as safety cabinets, serviced regularly, properly and in accordance with manufacturer's guidelines from the asecos experts. This will ensure greater safety in your workrooms or workshop. If you do not maintain and service your safety equipment, or do so improperly or inadequately, you may lose your insurance cover as the operator in the event of damage. This is often associated with costs, e.g. caused by a plant shutdown or closure.

Therefore, focus on safety. More security for your staff or employees, your buildings and everything inside them. Our ION-LINE safety storage cabinets are categorised as fire protection and therefore safety systems.

According to "Health and Safety at Work Act 1974 section 2 (d)", these must be properly maintained and checked for functionality at regular intervals by a competent person. We support you in this!

Benefit from our asecos original service to maintain the full functionality of your safety storage cabinets and your insurance cover. Our service technicians are qualified persons as defined by TRBS 1203 and offer you legal security. Contact us now!

Our proposal (for UK only) - tailored to your individual needs:



PREMIUM



The regular inspection according to EC-directives 89/391/EEC

Inspection

- Visual inspection including ventilation test
- Error analysis

Legal Certainty Inspectorate

- Control of stored goods, legal marking, checking the documentation, installation conditions

Immediate maintenance

- Measures to delay wear and tear
- Functional test
- Feedback of maintenance work

Immediate repair

- Replacement of parts to a value of £5 are included in the service.
- Immediate repair in 98% of cases for manufactured products

Signed entry in the asecos service booklet / inspection sticker / inspection record





www.asecos.co.uk

TERMS AND CONDITIONS

Dimensions, weights and illustrations

Technical data such as dimensions and weights shown in the catalogue are approximate values. Illustrations may contain special equipment. Products will be delivered without any decoration material.

Price and delivery information

To obtain binding price information and delivery times, please contact your respective dealer/retail partner.

Customs duty / documents dispatch

In case any country-specific extra costs occur for an order (like for example customs confirmation, express shipping of documents, chamber of commerce (IHK) confirmations, etc.), the charges will be passed on accordingly.

Other information

Furthermore we refer to the general terms and conditions of the asecos GmbH on www.asecos.global and the terms and conditions of your specialised dealer.

asecos GmbH

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